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Associated Students of the Montana School of Mines

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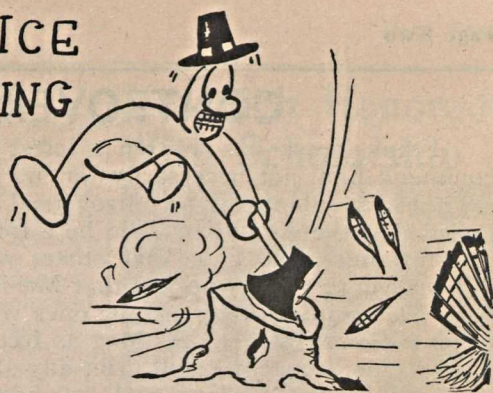
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Montana School of Mines AMPLIFIER

Published by the Associated Students of the Montana School of Mines

HAVE A NICE
THANKSGIVING



Vol. IX, No. 3

BUTTE, MONTANA

Tuesday, November 26, 1963

Conway Wins Scholarship Prudential the Donor



James T. Conway, a well-known senior in mineral dressing at Montana School of Mines, has been awarded the \$1,000 Prudential Federal Savings Fellowship this year.

Conway is now vice-president of the Student Council and has served as regent and corresponding secretary of the Theta Tau Fraternity and secretary-treasurer of the M-Club. He is a member of the Newman Club, the M-Club, and the AIME, the American Society for Metals, the Copper Guards, and has participated in both varsity basketball and baseball. He is a graduate of Christian Brothers High School, where he was active in intramural sports and was a Science Fair winner.

Since he has been at Montana School of Mines, Conway has been on the honor roll seven times, and was a recipient of the Butte Rotary Club Scholarship and the American Smelting and Refining Company Scholarship.

During the summers he has worked with the American Smelting and Refining Company, the Ralph M. Parsons Construction Company, the Yellowstone Park Company, and as a laborer and janitor at Montana School of Mines.

Mr. Robert Amrine, vice-president and manager of the Northern Division for Prudential Federal Savings, said, "We were delighted to establish this fellowship at Montana School of Mines and we are very pleased to have it awarded to such an outstanding student. Prudential Savings always has been interested in the development and expansion of our local college, for we feel a particular closeness to the communities in which our offices are located. It gives us a feeling of pleasurable service to be able to assist some deserving young person on the way to a stimulating future."

Conway has already begun work on his thesis, "Electrical Conductivity of Asphalt Emulsions." The preparation of a thesis embodying investigatory and research work is a requirement for a degree in the Department of Mineral Dressing.

Conway is the son of Mr. and Mrs. Thomas L. Conway, 1150 W. Granite, Butte.

Montana Power Holds Clinic

Six Montana School of Mines students and 31 Montana State College students attended the Montana Power Company's Business Management Clinic, held in Butte on November 14 and 15. The clinic afforded an opportunity for students to view a large business and its various operations. Montana Power officers described the work of various departments; student discussions followed.

Those in attendance from the School of Mines were graduate students Pete Gross, John Richards, and Orlando Olivera; and seniors John Callahan, Walter Nellis, and Conrad Englehardt.

International Incident

Last Friday, November 15, G. P. Ramulu, from Hyderabad, India, brought his country to America in a program presented to a large crowd of students, faculty members, and the people of Butte.

The program began with an introductory speech, in which Ramulu explained the history and ancient culture of his country, discussing the historical development and the three major periods: Hindu, Moslem, and British.

After this explanatory background, he talked about modern India after its independence. Especially noted was India's good relationships with its neighboring countries. The different political organizations among the states and their political setups were explained; too, the languages in these states.

Ramulu then pointed out that small-scale industries play a more important part in the economy than do the larger-scale industries, an economy which helps avoid the unemployment problem and leads to good distribution of economic establishments throughout the country. The speaker then explained that agriculture plays a vital role in economy and life, and that 80% of the population is agricultural.

After giving this background of his country, he then showed the audiences two films: "Silent Revolution", which dealt with the development of agriculture and rural economy in India. The second film was entitled "Shantiniketan—Abode of Peace, the University of Rabindranath Tagore", which teaches the fine arts—music, painting, dancing, languages, and philosophy.

The audience then queried Ramulu on aspects of the politics, language, history, and geography of his native land. The program ended with the singing of the Indian national anthem, after which refreshments were served.

Ramulu is a senior in Metallurgical Engineering. He has already been to college in India, where he received his Bachelor's degree in geology. He has had the opportunity to speak before various social and religious groups in Butte before, and during, his stay at the School of Mines.



G. P. RAMULU

Mining Convention Announced

The annual convention of the Northwest Mining Association will meet in Spokane in the first week of December. This branch of the American Mining Congress will hold a two-day session, at which technical papers pertinent to the mineral industry will be read.

At this yearly convention will be a contingent of seniors and juniors from the School of Mines. The mining-school seniors will depart a day early, in order that they may visit the laboratories of the United States Bureau of Mines. Here the prospective engineers will see several Mines alumni working in the research projects, among which is the support of underground mines.

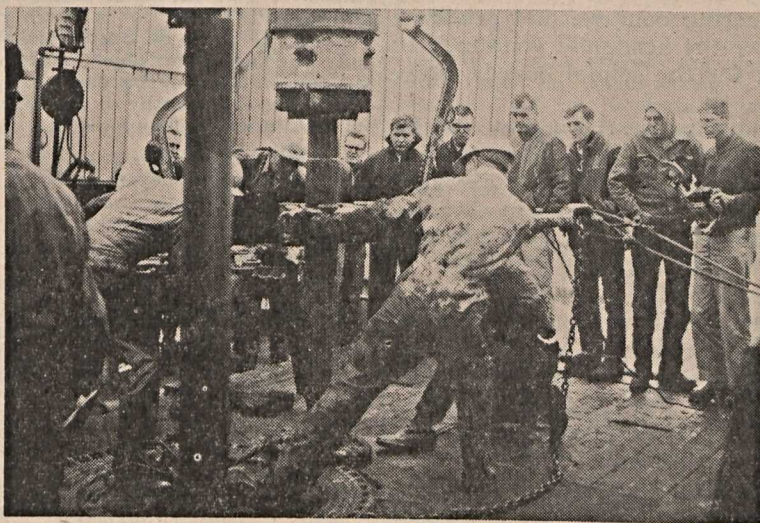
NINE SENIOR MEN RANK

Nine senior students from Montana School of Mines have been selected for inclusion in the 1964 edition of **Who's Who Among American College Students in American Universities and Colleges.**

The students who expect to graduate in June are Kenneth G. Arne, Prairie City, Oregon; James T. Conway, Butte; F. Conrad Englehardt, Lancaster, California; Charles O. Gale, Butte; Robert B. Hill, Butte; Walter Nellis, Pittsburg, California; David B. Rovig, Kalispell; Lee W. Saperstein, Elmhurst, New York; Calvin J. Strobel, Terry, Montana.

The selections are based upon four qualities—excellence and sincerity in scholarship, future promise in his field and to society, integrity and fair dealing with associates, and leadership.

PET STUDENTS TAKE TRIP STUDY FIELD PROBLEMS



Roughnecks make connection at Kiyo No. 1A as Profs. Stolz and Mannon, and students Busenius, Stowe, Vincelette, Wachtler, Rife, and Hruska look on.

On November 3, the Petroleum Department, under the supervision of Professors Stolz and Mannon, went on a field trip to Glacier National Park. The students, departing in individual cars, arrived in Browning at 10:00. Since it was snowing, the scene created was a very colorful one. Derricks were dominant figures set against the snowcapped mountains.

The first derrick to be visited was the Kiyo No. 1-A well. The group was welcomed by a Phillips engineer, Ed Arnold, Brinkerhoff Drilling Company foreman, who showed and explained the history of drilling in that area, which began in July, 1962.

ANDERSON-CARLISLE PRESENTS SPEAKER

Mr. David Hoenshell, a member of the State Board of Registration of Professional Engineers, was the main speaker at an open meeting of the Anderson-Carlisle Society on November 6. The meeting was attended by an overflow crowd of students and faculty members in the physics lecture room, many of whom took part in a very lively and interesting question-and-answer period following Mr. Hoenshell's talk on "Engineers in Training Tests and Professional Registration."

During the evening the importance of professional registration and the role of the EIT test in attaining this distinction were discussed, along with many other facets of professional registration. Montana School of Mines' Dr. Adami, who is also a member of the state board, was a great help in answering many questions, as were Professors Stoltz, Stout, Young, and Van Matre.

The Anderson-Carlisle plans to bring speakers on various topics to the campus through the school year. As with this first meeting, all interested persons are invited to attend.

THANKSGIVING DANCE

The sophomore class will sponsor the Thanksgiving Dance, to be held Tuesday, November 26. Since the theme will be the Harvest Moon, the Sub will be decorated in appropriate fall colors. Chairmen of the various committees are as follows: Kay Chambers, refreshments; Doris Ranney and Don Anderson, decorations; Joe Fordice, clean-up; Lynn Estey, invitations; and John Crowley, publicity. The R-J Trio will provide the music for the dance.

Lost-Circulation Problems

The Phillips Company encountered severe problems at the very start. Principally, the problem was maintaining a sufficient amount of drilling mud, which is necessary in the drilling of wells.

One of the major problems encountered was the presence of large underground caverns, which made it difficult to maintain a sufficient circulation of drilling mud. In one instance a drilling bit fell 110 feet without touching anything. The drill foreman explained how all conventional methods had been exhausted to restore circulation. They had resorted to measures like dropping burlap bags, small trees, bales of hay, sacks of mud and cement, in an attempt to plug off the formation. Professor Mannon stated that "They had gathered everything they didn't need and stuffed it down the hole." Eventually they plugged the hole and moved to another location, there encountering no difficulties.

Percival Tours Visitors

Students were given a tour of equipment and then proceeded to Browning, where they lunched as guests of the Montana Power Company. Thence, they proceeded to No. 1-11 Two Medicine Unit, where they were conducted on a tour by Don Percival, a Mines alumnus. Some students climbed to the top of the rig to get a birds-eye view of the operation.

Among the visiting students were John Callahan, Walter Busenius, Kishore Parekh, Dave Rife, Bill Halvorson, Rudy Wachtler, Dan Stowe, Mansoor Awan, Ed Forsling, Jim Vincelette, Joe Kandel, Don Hruska, Pat Marx, Dick Roberts, Rod Ylitalo and Keith Tyner.

Arne, a senior in mining engineering, has been a member of the college's glee club and the Residence Hall Council. He has served as president and vice-president of the Newman Club, as secretary-treasurer of the student chapter AIME, and has been active in Theta Tau Fraternity. He has been on the college's honor roll for three semesters. He has been successively employed during summers by the U. S. Forest Service, the Hecla Mining Company, the Spokane National Mining Company and the Lucky Friday Mine in Mullan, Idaho.

Conway, a senior in mineral-dressing engineering, has been on the honor roll seven times and was the recipient of the Butte Rotary Club Scholarship, the American Smelting and Refining Company Scholarship, and the Prudential Federal Savings Fellowship. He is now vice-president of the Student Council and has served as Regent and Corresponding Secretary of Theta Tau Fraternity and Secretary-Treasurer of the M-Club. He is a member of the Newman Club, the M-Club, the AIME, the American Society for Metals, the Copper Guards, and has participated in both varsity basketball and baseball. Conway has worked during summers with the American Smelting and Refining Company, the Ralph M. Parsons Construction Company, the Yellowstone Park Company and as a laborer and janitor at Montana School of Mines.

Englehardt is also majoring in mining engineering. He is a member of AIME, Sigma Rho Fraternity, the Montana Pilot's Association and has been on the honor roll five semesters. A graduate of Antelope Valley High School in Lancaster, California, he is a life member of the California Scholarship Federation. During summers he has served as an engineering aide at Edwards AFB, and has worked at both the Badger and Leonard mines in Butte.

Gale, a metallurgical-engineering student, is a member of the American Society for Metals, the AIME, Sigma Rho Fraternity. He has been active in intramural sports at the college as well as Circle K. Gale twice received the Anaconda Company Scholarship awarded annually to children of the company's Montana employees. He has been employed by the B A & P Railway, the Anaconda Company and Anaconda Aluminum.

Hill is majoring also in metallurgical engineering. At Montana School of Mines he is a member of the American Society for Metals and Circle K. He has been awarded the Cobb Foundation Scholarship and the American Smelting and Refining Company Scholarship. Hill has participated in intramural basketball. During recent summers he has been employed by the U. S. Forest Service.

Nellis has received an advanced Scholarship, the Billings AIME Scholarship and the AIME Women's Auxiliary Award. He is a member of AIME and both Theta Tau and Kappa Delta Rho fraternities. A petroleum-engineering student, Nellis worked during the summer of 1963 for the California Oil Company as a petroleum engineer.

(Continued on Page 3)

CONTROVERSIES

Frank Trask has written a letter stating his views. We commend him, not necessarily for his ideas, but for his forthrightness in submitting a controversial letter. We have always hoped that the **Amplifier** could be a forum of student opinion; we state ours, and hope that others will state their opinions. We marvel at those who feel that Mr. Trask's letter should not have been printed; they are the ones who have not studied our Constitution very well. As long as freedom of expression does not become license, we will print any student literary effort—if tendered by the student, and dependent on certain mundane and mechanical requirements such as space allotment.

As to the basic controversy, there is none. We are asked, "Do you really hate general students?" "Are you against us?" and "Do you dislike our activities?" The answer is an inclusive **NO**. As asinine as it would be to expect a competent truck driver to become an accountant because there is a good accounting school in his town, equally asinine is it to expect a good prospective teacher to become an engineer solely because a fine engineering college exists in our town. However, it is, we believe, not too much to expect that people who voluntarily matriculate at a college should strive to do as well as possible. We feel that students, either in arts or engineering, who squander the valuable educational opportunities at Montana School of Mines, are the scourge of our school—not the so-called general student, surely not the seriously dedicated one. We are interested solely in the betterment of our college—a college that was established to provide instruction in the mineral industries. Any activity that aids this goal is to the good; any activity that deters or thwarts this goal is for the bad. We are certain that a sound arts course is a necessary adjunct to, and enrichment of, this objective.

Then why are there differences on campus? The first reason is the fault of the secondary schools. Too many students arrive on our campus poorly trainly and poorly advised. They enroll in both the arts and engineering courses, and graduate from neither. These students lower the academic standings of our school. This fault is a matter for the school boards, however, and not the student paper.

The second reason is the disparity in the rigors of the courses followed by the engineers and the arts students. It is no wonder that a full-time student who is successfully carrying from 18 to 25 hours per semester—very few engineers actually succeed in doing this—should tend to disparage the full-time student who is carrying from 12 to 18 hours per semester. It is seen that very few arts students plan and actually complete a course at MSM that is equal to the same course at other schools. If the general course, as planned, were as rigorous as the engineering course is planned, then the disagreement between students would be far less. The third reason, stated in a previous editorial, is the tremendous strain placed on some of our teaching staff by the disproportionate student body.

We hope that the above discussion has cleared some points in our colleagues' minds. We further hope that we have not become vague or vacillatory.

SPORTSMEN

We unequivocally support our football team (and Professor McCaslin) in the contention that they do their best to remain sportsmen. In the face of insurmountable officiatory odds (reported to us by accurate hearsay), we believe our team responded admirably.

Without knowing the person responsible for the letter to the **Montana Standard** of November 13, 1963, we can only say that he or she presented a very biased, officious, and prejudiced view of our team's behavior.

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CAMPUS CALENDAR

NOVEMBER

26—Thanksgiving Dance
28-30—Thanksgiving Recess

DECEMBER

19—Christmas Dance
21-January 6—Christmas Recess

READER COMMENT

November 13, 1963

To the Editor,
The Amplifier
Dear Sir:

Recent abuse has fallen heavily upon the shoulders of my friends (the rising mass), the general students. It is abuse that is wickedly ill-founded and is voiced by a vile, biased, and blasphemous engineer; it relegates the general student (in a fiendish manner) to the subterranean level of worms, snakes, slugs, sharks, and mad dogs.

The general students have been too long at the butt end of the rifle—too long slighted and stained by the sneering, haughty engineers. Peaceful coexistence with engineers does not, can not, and will not occur. Abject submission is not the answer; violent aggression must reign.

Why must we transfer from a weak, tottering engineering school? Why could we not, instead, graduate from a new school, an institute of grandiose proportions dedicated to the arts—a school of music, or history, or maybe even philosophy?

Our object, as enlightened students of the mind, must be the immediate obliteration of technical (the word is as bile) courses, and their replacement with subjects of a more genteel nature—politics, art, literature, and the like, and possibly even a few religious courses. The school's present paltry appellation must be banished, and in its place be put a name of beauty, of reason — **The Montana School of Minds**, perhaps, or for a touch of elegance, **L'ecole de Butte**. And finally our paramount object must be the abolishment of the unaesthetic, our accusers, unworthy of our town, our institution, and our ideals.

Sincerely yours,
Basquette Wieve

To the Editor,
The Amplifier
Dear Sir:

In answer to the letter published in the last issue of the **Amplifier**, I would challenge Mr. Trask's opinion and present my own on the subject.

The general student of the School of Mines is one who will attend M.S.M. for one or possibly two years, after which he will transfer to another school to complete his education and to receive a degree in his chosen field. The present feeling between the general student and the engineering student is, in my opinion, far from a healthy attitude.

Various engineering students have made remarks referring to the simplicity found in pre-professional "Mickey Mouse courses" being offered the general students; too, the general students have been known to comment adversely upon the narrow minds of some engineering students. Both attitudes may have valid arguments, but constant bickering will not remedy the situation, certainly not contribute to a friendly academic climate. I believe that an acceptance of portions of both arguments would be a better solution to the problem.

M.S.M. is without a doubt among the finest engineering schools in the world, and we are all privileged to be attending classes here. At the same time, however, our school can become outstanding in pre-professional circles, without being called a liberal arts college.

The many advantages of beginning one's college education at M.S.M. are both logical and obvious. Attending school at home provides an appreciative savings for those living in Butte and the surrounding locale. Secondly, no one could ask, generally speaking, for better instructors of courses offered the student. The transition from high school to college is made much easier at the Mines. For example, the smaller classes enable the student to obtain personal help with academic problems and to receive a better foundation in the basic college courses. All of these reasons seem to point to an economical and beneficial way of beginning one's college education.

The obvious necessity for a well-rounded education and the distinction between a person enrolled in the general course and the general student are points also involved in the present disputation.

I hope that this letter will not receive a hostile reception; for it is intended to be a simple declaration of the reasons why a general student finds the Montana School of Mines a very important part of his future. I, for one, am very grateful for the opportunity to attend this fine school of ours. Further, I be-

lieve that the high standards it has achieved in the past will remain high; more, that the school will grow in stature.

Yours,
Gary Treglown
General Student

NO LIBERAL ARTS?

The sub as a geology lecture room, The coed lounge as a lab, The general course, a lesser force, And no place for students to gab. The engineer has a constant fear That there might develop classes On how to talk and how to act When he lives among the masses. He may be a glorified shift boss, Or a surveyor of the land. But to get to the top with one big hop,

One needs a knowledge of man. The day of the silent introvert And the uncouth engineer Is banished along with the barroom song

To the days of yesteryear. So grab a bit of our culture And join the talking throng, 'Cause you must admit, you're a great big Flop If you just don't get along.

By a Mines' General Student
—Anonymous

PUT AWAY THE AX

One of the most frustrating problems of the modern world is the continual speed of change. What is here today will be gone tomorrow, or, at the least, considerably different. Not exempt from this historical movement, Butte and its merry-moving, so-called "Freudian Womb seekers of sorts" are fully alive to the influence. We have changed and are still changeable. But, if one carefully observes us, it is evident that we natives have a permanence to our nature, an inheritance that has been here for generations and will be here for many more to come. This is, undeniably, a deep, near-instinctual concept and feeling of good, sound humanity. For anything to be good and sound, it must endure. It has endured; and because it has, we, the embodiment of the quality, will also endure.

On the whole, the general students at Mines, plus many of the engineering students, are native born. Being, perhaps, "chosen" to an extent, or at least "lucky," we have that good ole Butte Barrel of Fun in us, which, whenever necessary, we can roll out, be it at Homecoming or just a few spare minutes in the Sub. As to the question of whether too much emphasis is being placed on Homecoming and whatever other social activities will be singled out, I reply with an emphatic "No." We are a growing school, and as the number of the students grow, then so must the size of their united activities. Next year, let's have a bigger Homecoming, a better record in football, a bigger enrollment, and a better student-body attitude. We are not just general students or engineers; we are people, the human kind, and we must not only live together, but we should be most enthusiastic about the whole "damn" thing.

Every year the number of general students will increase, greatly outnumbering the engineers. "So What!" Is this some sort of universal crime? What is it that leaves an engineer so frightened when he finds himself in the minority? Perhaps, it is the narrow alley that his chosen field leaves him in? However, there is nothing to fear. You are in the company of the most diversified associates you could hope for. Don't be afraid to talk with us. We are friendly! We are most happy to talk with you and are most grateful when we receive help from you; so why not put away the ax! Face the facts. We are here to stay. We are the numerically ruling segment. We will continue on our merry-making social ways and we heartily encourage you to come along. It will be a small world once you leave here; so enjoy it. It's later than you think.

Tom Downey

There is no adequate defense, except stupidity, against the impact of a new idea.—Percy W. Bridgman

IN CONDOLENCE

The Faculty, the Students, and the Personnel of the School of Mines wish to extend their sincere sympathy to Mrs. Alma Fuller upon the passing of her husband Eugene.

Have You Heard?

A new signhangers' club has been organized on campus. Its members are Russell Bills, Manley Stallings, Ray Hyyppa, LeRoy Wilkes, and Jim Jenks. Advisers are Art Ditto and Dave Rovig.

I wonder why some of the boys in the dorm are looking for coeds as army deferments. Chicken!

Why did Frank Trask shave off his beard and begin wearing clean white shirts? Perhaps there's a female influence, eh?

A certain green '57 Ford has been parked so as to take up two places, contrary to parking regulations.

Romeos Walt Nellis and Tom Liebsch did not attend the East Glacier field trip because of dates they had with Western "dollys."

Who are the ghosts who haunt the library at night? Halloween is over, fellas, or didn't you know?

There's only one thing worse than one Rovig on a party, and that's two!

Say, wasn't that a swell band the School of Mines had at the Mines-Carroll game? There's nothing like a grand bunch of musicians getting together.

Ed Shumaker possesses a handy little list these days. Say, Ed, what do you have planned for November 30?

I just don't know what to think about Russ Bills. First he hangs a list in the SUB, volunteering to give pictures of himself to all girls who want one, and now they're calling him Twinkle Toes. Hmmm.

Oh yes, Wally Busenius, how's your rock collection coming along?

Tongue Twister for the Day: Which brother's hustling the girl the other brother's trying to hustle!

Say, Mr. Murray, you're slipping with your slips. You overlooked one whole human being in organic chemistry.

Mrs. Sarsfield is so anxious to get new recruits for her famous P.E. class, she's sailing out dean slips to everyone. Boys next?

Poor "Curly Locks" Stolz sez, "Neither rain, nor sleet, nor snow helps my curly locks." Donations are being accepted for a rain bonnet.

We have a speed demon working at the School of Mines. Beverly Seccomb was doing a bit of draggin' in her wagon and got picked up for speeding. Twenty-five dollars ain't chicken feed, is it, Beverly?

The new challenge for the year is climbing oil derricks. Don Hruska and Kishore Parekh climbed all the way skyward and rested among the clouds. Dan Stowe and Rudy Wachtler made it to the monkey board, but Ed Forsling was the one to stay close to good old terra firma.

SPECIAL INTERVIEWS

The United States Atomic Energy Commission will not conduct regular interviews on the campus this year, but Mr. P. J. Corcoran will be in Butte on December 11, and will be available to discuss the programs with interested and qualified students. Tentatively, Mr. Corcoran, who will be accompanied by Mr. Francis J. Murphy of the Albuquerque Operations office, plans to arrive in Butte before noon and will be available throughout the afternoon. Qualified students may apply for these programs by furnishing Mr. Corcoran with a Standard Form 57, Application for Federal Employment, together with a transcript of grades and subjects; or by mailing the application and supporting papers to Federal Personnel Office, U. S. Atomic Energy Commission, P. O. Box 2108, Idaho Falls, Idaho. Applicants must be citizens of the United States. Mr. Corcoran will talk to those interested in Room 101, Metallurgy Building. Additional information is available in the Placement Office.

SENNE GRANTED AWARD

Marvin Senne received recognition in the **American Engineer Magazine** of November, 1963, for his receipt of the 1963 Gold Medal Award, presented by the Montana Society of Engineers. After careful screening, Senne was chosen from several outstanding nominees. He had been active in sports at Mines, was student-body president, and attained honor-roll standing for both semesters of his senior year.

The presentation was made by Martin Hannifin (P.E.), immediate past president of the Montana Society of Engineers, at the sixth annual honors convocation.

DR. ADAMI - A LOYAL ALUMNUS

by Doreen Shea

The name A. E. Adami has long been respected on the campus of Montana School of Mines, and rightly so, for it is doubtful whether any other man has given his services so completely, dedicatively, and continuously to the college.

Active In Alumni Association

Dr. Adami has always been closely associated with the school, even after his retirement from the faculty in 1956, and is currently active in the MSM Alumni Association. He has held every office possible in the Association, being presently a member of the executive committee; he was secretary-treasurer of the organization for 25 years. In his travels around the United States, he has himself founded eight sections of the Alumni, including those groups in Helena, Butte, Los Angeles, Spokane, Seattle, San Francisco, Denver, Duluth, Grand Junction, and New York.

Adami Comes To MSM

Dr. Adami was born in Helena, but Butte has been his home ever since he came to school at MSM, then called Montana State School of Mines. He has been impressed with the great activity of the Butte miners. "They knew where they were going," he says. After visiting the mines, he was firmly convinced that he wanted to be a mining engineer.

It was 1903 when he came to Butte, graduating in 1907 with a degree in Mining Engineering. He was a chemist for the Red Metal Mining Company in 1907, and a chemist and assayer for the Anaconda Mining Company in 1907 and 1908; but his alma mater needed him. Consequently, in 1908, he accepted a position as instructor of mathematics and metallurgy at MSM. In 1911 he was made an assistant professor of mining engineering; in 1919, an associate professor; and in 1926 he became a full professor. From 1928 until 1956, Dr. Adami was vice-president of the college and acting president in 1950 and 1951. He became dean in 1943, holding that position until his retirement in 1956 as vice-president emeritus.

Dr. Adami the Teacher

Never intending to be a teacher at first, Dr. Adami, however, grew to like it as each year he was persuaded to come back. He has taught in every department at the school except petroleum, and at times he had been involved with instructing a course with which he had had little experience. Such was the case with descriptive geometry. He learned it by teaching, and is now a master of that particular subject.

Dean Adami notices great differences in the teaching methods of today as compared with those of past years; and he also finds that even the subject matter today is entirely new—such as the great body of new knowledge in chemistry.

Dr. Adami has a few suggestions for students, also. He highly approves of the current series in the downtown paper entitled "30 Days to Better Grades," and he offers his own advice to the student: "Keep a pencil and pad handy, and, after every two or three paragraphs, write a brief synopsis of what you have read."

Garden Club Council Endorses Alumni Program

The Rocky Mountain Council of Garden Clubs has voted to contribute funds for turf for the M.S.M. football field and for landscaping the campus. At a recent meeting with the Council, Coach Simonich spoke of the need for turf, and of other projects to improve the grounds.

With the help and co-operation of the City Recreation Department, headed by Mr. Don Peoples, and with the generous contributions from the local garden clubs, this program, spearheaded by the M.S.M. alumni, will be in operation in the following months.

Mrs. Robert Corbett
Public Relations Director of Alumni



DR. A. E. ADAMI

WHO'S WHO

(Continued from Page 1)

Rovig, a mining-engineering student, is president of the Anderson-Carlisle Society, served as Student Council President in 1962, President of the Residence Hall Council, Archon of Sigma Rho Fraternity and Chancellor of the Copper Guards. He has participated in intramural sports and served on the staff of *Magma*, the college yearbook. He has been employed by the Anaconda Company, the Zonolite Company, Ron's Gamble Store and Marina, and several service stations in Kalispell.

Saperstein recently returned from Germany, where he spent the summer working for Wintershall A. G. in Kassel. A mining engineering student, he has been on the college's honor roll each of his semesters in school. He has been the recipient of the American Smelting and Refining Company Scholarship and Advanced Scholarships made available by the college. He has served with the Copper Guards and as past secretary-treasurer of the AIME Student Chapter. Saperstein served as editor of the student newspaper in both 1962 and 1963. He has also been employed by the Anaconda Company and the American Smelting and Refining Company, Wallace, Idaho.

Strobel, majoring in petroleum engineering, has actively participated in athletics at Montana School of Mines and is sports editor of the *Amplifier*. He is a member of the student chapter of the AIME, Sigma Rho Fraternity, the Copper Guards. He has served on the Student Council, the Residence Hall Council, and has been the recipient of various scholarships. He has been employed as a roustabout and an engineering assistant by Mobil Oil Company and as a miner by the Anaconda Company.

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Counselor-Administrator Conference To Be Presented

Professor Stolz, of the Petroleum-Engineering Department, has announced the meeting of the College-High School Counselor-Administrator Conference to be presented Tuesday, November 26, at the Montana Power Auditorium.

Representatives attending from Montana School of Mines will be Professor Stolz and Ed Simonich, Director of Athletics. The chairman of this event is Homer Anderson, Director of Admissions, Montana State University. The program is as follows:

Morning Session—9:30 A. M.-12:00 Noon

Lincoln Aikins, Moderator
Vice-President, Eastern Montana College of Education

A. Test-Score Interpretation
Clarence Shively, High School Viewpoint
Homer Anderson, College Viewpoint

B. College Preparation
M. E. Brookhart

C. The Role of the Counselor to the Student
Ralph Kneeland

D. The Transition from High School to College
Gus Stolz
Leo Maney

Coffee Break—10:00 A. M.-10:15 A. M.

Question - and - Answer Period—10:15 A. M.-11:45 A. M.

Lunch—12:00 P. M.-1:30 P. M. No host.

Finlen Hotel

Program—Mechanics of Admission, Scholarships, State, Special Evaluation of Scholarships, Problems of Trade Schools

Afternoon Session—1:30 P. M.-4:00 P. M.

Gus Stolz, Moderator
Professor, Montana School of Mines

University Units Presentation
Western—Ralph Kneeland
University—Frank Abbott
Northern—Richard C. Mattson
Mines—Ed Simonich
Eastern—Lincoln Aikins
College—Helen Fechter

Questions and Answers
Evaluation of Program
Adjournment—4:00 P. M.

Tri-State Visited

Mr. Gordon Ziesing and his class of mineral dressers were conducted on a tour of the Tri-State Mineral Company plant, located five miles south of Dillon, Montana, by Mr. Tom McGovern, general-plant superintendent. Rock specimens of ore and samples of ceramics were shown to the sightseers, 18 of whom made the inspection.

The transformation of mineral talc to a saleable talc does not require any chemical change. The process involves the removal of fines, separation of magnetic impurities, visual selection on the basis of color, removal of moisture, and grinding to proper size.

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"This inspection," stated Professor McGlashan, head of mineral dressing at Mines, "provides one of the many illustrations of the preparation of nonmetallic minerals for diverse industrial and consumer requirements."

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LIBRARY NEWS

Approximately 20 new records have been added to the M.S.M. Library record collection. They are now on display at the library desk.

Listening to hi-fi music has been a popular activity this fall. Students play records from the library collection, and also bring their own records to play on the hi-fi equipment.

The hi-fi components and the basic collection of records were presented to the School of Mines several years ago by the Butte Rotary Club as a memorial to Tom J. Davis, well-known Butte lawyer. The playing equipment is housed in a sound-proof room on the west side of the auditorium-museum hall in the Library Building.

The records recently added to the Library include the following:

Falla—Ritual Fire Dance

Tchaikovsky—Symphony No. 5

Debussy—Three Sonatas

Bach—Partitas

Gershwin—Piano Concerto in F; American in Paris

Albeniz—Tango, Tango, Tango

Villa-Lobos—Trio, Quartet and Quintet for Woodwinds

Rachmaninoff—Piano Concerto No. 2

Haydn—Sonatas

Shostakovich—Symphony No. 5

Mozart—Brass and Tympani

Respighi—Feste Romane

Spain in Hi Fi

Blue of the Night in Hi Fi

In Waltz Tempo

Watch for new books in the library! New books are placed on the book stand between the library desk and the card-catalog case. Students will find it worth while to browse through these volumes in plastic-covered, bright-colored book jackets. The titles range all the way from higher mathematics, advanced treatises in geology, mining, petroleum, metallurgy, chemistry and physics, to more general books on history, literature, fiction, and short stories. Paperbacks are also included.

All books are fully cataloged in the card catalog, and a separate card file of recently added books, arranged by subject, is available at the library desk.

English Council Convenes

On November 15 and 16, the annual meeting of the English Departments of the Greater University System of Montana was held on the campus of Montana State College, Bozeman.

Representing faculty members were entertained at a Friday-night banquet at the Bozeman Hotel. The principal speaker at this get-together was Professor Don Coombs, who teaches at Montana State College, his title being "The National Debt, George Orwell, and the English Teacher."

On Saturday morning, in the Student Union Building at 9:00 a. m., the teachers assembled for a convocation, the theme of which was "What our product (graduates) look like to the users." Those serving on the panel for this discussion were Dean Robert Coonrod (MSU), Assistant Dean George Herman (MSC), and Mrs. Kathleen Rany (Helena High School).

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Simonich Honored With Scholarship



Prof. Stolz, Ed L. Simonich, Mr. C. F. Girand

On November 18, Ed Simonich, Jr., was awarded a plaque and a \$500 scholarship by the Mobil Oil Company. Mr. C. F. Girand, division exploitation engineer for Mobil Oil, made the presentation at a meeting of the junior petroleum class. Mr. Girand gave a speech on the availability of this scholarship to outstanding junior students, and urged all members of the junior class to work for one of these scholarships.

Stated Mr. Girand: "The recipient is selected on the basis of recommendations from the faculty and recommendations of the school. This scholarship is awarded regardless of race, color, or creed. I hope they can continue to the benefit of worthy students."

Mobil Oil Company matches the \$500 scholarship (plus fees) with \$500 for the Petroleum Department.

Professor Stolz, of the Petroleum Department, observed: "We of the department appreciate these scholarships that are made available to the students and the matching funds that go to the Petroleum Department."

This scholarship is one of three offered by Mobil Oil Company in the Rocky Mountain area.

Two discussions followed the panel: "What Is This Thing Called English?" and "What Happens to the Graduate of the High School Honors Program in Montana Colleges?"

Mr. William Roberts, of the HSS Department, represented the Montana School of Mines. Professor John Parker, of MSC, president of the Council for this year, arranged the programs.

Life is the art of drawing without an eraser.—John Christian

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Butte AAUW Branch Tours Lab

Fifty-five members of the Butte Branch of the American Association of University Women were inspired by what they heard and saw in their recent tour of the laboratories at Montana School of Mines, in keeping with the branch's 1963-64 theme, "Bridging the Gap Between Science and the Layman."

Tour arrangements were made by Mrs. Stanley Gronfein and conducted by Prof. Vernon Griffiths, of the Metallurgy Department; and Prof. D. W. McGlashan, of the Mineral Dressing Department.

Mrs. Avron Canty, club president, said, "We are very grateful to the professors of the Montana School of Mines for the wonderful job they did in bringing a highly specialized subject matter down to the level of a layman's understanding." She stated further: "This tour has pointed out the tremendous gap between people educated in nonscientific and scientific fields." She also feels the theme, "Bridging the Gap Between Science and the Layman," will provide a vital service and impetus in Montana in furthering the growth of higher education.

When the "theme" was first introduced, the club had doubts of being able to fill its calendar with adequate, varied programs, but soon found this fear to be ill founded. Some of the future-planned programs are a trip through the concentrator, study groups, introduction of new mathematics offered in our school system, and a careful study of the food and drug laws.

AAUW membership is limited to those persons having a four-year college degree.

Other Groups Tour Campus

A class from the Social Welfare Department at Montana State University and members of the Montana Florists Association enjoyed their interesting and educational tour of the campus.

A Geological Horseman

Robert M. Miller, a freshman engineering student from Spokane, Washington, may use riding boots instead of hiking boots if he realizes his goal of becoming a geologist. You see, Bob has been prominent in 4-H horsemanship activities in the Spokane area, winning several trophies in recent years.

Bob started his hobby by accident when his parents bought a horse for his sister. He went "buggy over horses" and joined a 4-H horsemanship team. His present team, the "Saddle Tramps," has won every first-place team event in Spokane competition for the last three years. He, himself, was awarded a special sportsmanship award at a 4-H banquet held just before he left for college.

Bob has always been interested in the sciences; he has an excellent chemistry laboratory at home. Last year, when he decided to go into geology, he asked the advice of the head of the Bureau of Mines in Spokane, of leading geologists in his district, and of his high school chemistry teacher. They unanimously advised him to go to the Montana School of Mines for his education. His chemistry teacher told him that he needed a "real tough" school. The Mines seems to qualify, according to Bob. He "couldn't have hoped for anything better." We hope he succeeds as well in his engineering as he has in his horsemanship.

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COED CUES

by Lee Ann Peterson

An informal luncheon was given Wednesday, November 13, in the Sub by the Sophomore big sisters for their freshmen little sisters. Sandwiches, salad, cake, and punch were the refreshments served. The purpose of the luncheon was to get the big-little sister program underway, so that all the girls would get to know their "adopted" sisters.

Married Women Swell Enrollment

Married women are markedly increasing the enrollment of women students. This year six married women are attending M.S.M., as compared to two married women last year. These women have interesting and varied reasons for returning to school.

Mrs. Donna Burks, who is a freshman general student, worked while her husband completed his college education, and now she has decided to start her college career. She plans to go into the art field.

Mrs. June Quane, the mother of five children, ranging in age from eleven years to twenty-one years, started at the Mines last year. She attended the last summer session at Western and plans to graduate from there with a teaching degree. Mrs. Quane has two daughters in college.

Mrs. Anita Hockaday also plans to graduate from Dillon, majoring in education. Mrs. Hockaday, the mother of two boys, has been taking general courses for the past three years.

Mrs. Ruth Toppari, who is also aiming at a teaching degree, plans to attend Montana State University after she completes two years at the Mines. Mrs. Toppari is the mother of a three-year-old daughter, who was the "Northern" girl on the freshman float for the Homecoming parade.

Mrs. Marlene Ellis is also taking several general courses. Her husband, John Ellis, is working toward his bachelor's degree in mineral dressing.

Mrs. Judith Fenton, who graduated from Eastern in 1962 and taught math and science at Twin Bridges High School last year, returned to school this year to take some extra courses related to her field. Her husband is a math teacher at Butte High.

These women are to be commended for their ambitious plans of attending school in addition to their duties as wives and mothers.

Miscellaneous "Coedings"

How many of the coeds would like to attend another of the famous parties at the Longfellow Recreation Center? The two held so far have turned out to be quite interesting.

Beverly Seccomb, stenographer in Dr. Koch's office, became engaged to Gary Malyevac, who attended the School of Mines last year and is now attending Western.

PEP RALLY

A pep rally for the Carroll game held forth in the Sub on Friday, November 8. The school's vivacious cheerleaders led the student body in cheering. Coach Simonich made a speech praising the ballmen who played their last game for the Mines. Some of the departing players are Moose Thomas, Dale Fellows, Fuzzy Olson, Mike Kujawa, Derald Anderson, and George Sever.

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MSM On The Move

Dr. Fred N. Earll, head of the Geology Department, and Robert D. Geach attended the founding convention of the American Institute of Professional Geologists at the Colorado School of Mines at Golden on November 14 and 15.

Professor Stout, head of the Department of Engineering Science, will present a paper at the Northwest Minerals Conference in Spokane on December 6 and 7. The paper is entitled "Level and Raise Spacing."

A description of the Montana School of Mines will be included in a forthcoming book entitled, **One Hundred Years Under the Big Sky**, to be published by O'Neil printers of Kalispell.

Professor Frank Kelly will speak at a "College Night" program to be held in Laurel on December 2.

On October 25, Dr. Vernon Griffiths, head of the Department of Metallurgy, attended, in Detroit, a conference of the directors of the National Science Foundation Undergraduate Research - Participation Programs.

National Spotlight

Mr. Mike Mansfield, in a recent letter, enclosed a clipping from **The Washington Post**, which should be of interest to all of us. The editorial, entitled "Mansfield Charm," reads as follows:

"Thirty-five years ago, Senate Majority Leader Mike Mansfield (D-Mont.) attended the Montana School of Mines. He mined coal (sic) at night, attended classes by day, and played on the football team in between.

"No. 16, as Mike was known (he denies such notoriety) seldom crossed any goal lines in those days. In recent years, however, his fame is far flung as a good-luck symbol to the usually winless squad.

"A year ago, when Mike dropped into Butte for a homecoming game, the team broke a ten-year, 44-game losing streak. The other day the School of Mines invited the Senator back for another homecoming, this time as guest of honor.

"The team had just lost five games in a row. With Mansfield in the stands, the Miners stopped Northern Montana, 19 to 7."

Incidentally, Representative Arnold Olson—pardon the unintentional omission, Mr. Olson, in the hurried Homecoming issue of the **Amplifier**—was present at the Homecoming festivities. Representative Olson (D) is another illustrious Mines student of a few years ago.

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Faculty Dine

See Pix of Safari

Mrs. J. Chelini and Mrs. G. Stolz were co-chairwomen of this year's annual faculty dinner party held in the Four B's Buffet, Sunday, November 10, at 7:00 P. M. Sixty members and two guests, Dr. and Mrs. L. G. Hammer, attended the buffet dinner.

Dinner, decorations, and entertainment highlighted the evening. Decorations carried out a Veteran's Day theme, with a small U. S. flag at each plate and red, white, and blue center runners on each table.

The head-table center piece, consisting of red, white, and blue carnations, presented as a door prize, was won by Dr. Vern Griffiths. Those seated at the head table were Mr. and Mrs. W. M. Brown, Dr. and Mrs. E. G. Koch, Dr. and Mrs. L. G. Hammer, Dr. and Mrs. V. Griffiths, and Mr. and Mrs. J. Chelini.

Dr. Hammer entertained the group with a very interesting and educational talk, plus slides, on his recent African safari.

Ten natives and one white hunter accompanied Dr. Hammer on the safari into Tanganyika, Africa. This beautiful country, comparable somewhat to eastern Montana, has a modern 85-degree daytime temperature and a 45-degree night temperature. Many game animals such as lions, leopards, buffalo, zebras, wart hogs, oryxes, wild beasts, gazelles, antelope, and gnus were shot for trophies, each hunter being allowed to kill one of each of the animals. Some of Dr. Hammer's trophies are being mounted in London, England.

Mrs. Chelini commented: "This was one of the better parties, outstanding food and a very interesting and entertaining program. We all felt as if we had accompanied Dr. Hammer on his African safari."

Dr. Hammer's slide program or his movies, when completed, would be a very educational convocation diversion.

Civic Orchestra Plays at Mines

Sunday, November 17, at the Montana School of Mines Auditorium, the Butte Civic Orchestra performed its first concert for the 1963-64 season. The concert was held before a capacity crowd, whose enthusiasm suggested that the music was a pleasure to be heard as well as played.

The orchestra is under the direction of Fred Honeychurch, Jr., of Butte. The featured soloists for the day were Don P. Stagg of Helena and Eleanor McTucker of Butte. For their selection they played Mozart's "Concerto for Two Pianos"; for an encore they played a selection from Gounod's "Faust".

Appearing in the program were thirty-five musicians from Butte, Anaconda, and Helena. Included in their repertoire was the overture to "Euryanthe" by Con Weber, and the relatively unfamiliar "Prairie Sketches" by Charles Cadman. Closing the program was Tschaiakovsky's "Capriccio Italien".

The orchestra has planned four concerts for this season, plus one bonus concert to be announced later.

HELL

As I ponder here, I cannot tell,
Just what the hell is meant by hell.
Is it an adjective, adverb, noun?
Of all the words it is most renowned.

When bad men die, they go to hell,
But where it is, I cannot tell.
When it's hot, it's hot as hell;
And when it's cold, it's cold as hell.
When we're angry, we're mad as hell;

And when confused it's—what the hell.
When we're hurt, it's a helluva pain;
And when with a girl, she's a helluva dame.

When we fight, we give 'em hell,
And when we curse, it's go to hell.
So I think it is just as well
That no one knows what the hell is hell.

Bill Daily

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Geology Field Trips

On November 16, Dr. Hall's structural geology class spent the day in the McCarthy mountain area near Melrose, learning to recognize a few of the structures they work with in their weekly labs. With the help of a few air photos from the U. S. Geological Survey Office, and some fine oblique air photos in color, which Dr. Hall took himself, the various beds of a large anticline were explored, faults were traced, and typical problems of a field geologist were explained. To those who were used to seeing a geological structure on paper, the trip was enlightening, but frustrating, since it pointed out the complexities that are not obvious in textbooks. It was a fine day, the excursion satisfying. Earlier in the fall, Dr. Hall took his geological-engineering students to the Wolf Creek Canyon area, where the state has had so much trouble with the new highway. This problem area should be of interest to anyone taking geology, and should serve to point out the necessity of complete geological studies in highway construction.

Dr. Hall said that the Highway Department is experiencing difficulty because it must stabilize a series of overhanging cliffs. He further stated: "They have chosen the wrong side of the valley geologically because the fractures dip the wrong way."

Students have been fortunate this year, as the exceptionally mild fall has permitted trips usually made impossible because of weather conditions. For those who could not participate in the summer field camp, this was a welcome opportunity for practical application of written theories.

The Venetian Blind

Adolph raised the venetian blind, opened the dirty window, and looked out. He was all alone. The moist night air hung heavy and cold. He could hear the distant fog horn of a ship and he remembered. He remembered how he had come to this island and how he had fought when they went away and left him. He remembered how he had searched this island and had found a small tribe of Indians. He remembered how happy he had been when they greeted him as friends. One thing he could not remember was where they had gone and why.

Adolph lowered the venetian blind and opened and closed the metal slats. If only he could open and close his mind as easily, just by pulling a string! He stood in deep thought; he opened the metal slats; he thought of his Brevo. He remembered how beautiful she was and how much he had loved her. She had also loved him and had born him a beautiful daughter. They, the three of them, had gone for a walk through the beautiful forest; they had sung, and Brevo and little Adea had picked a bouquet of flowers. He remembered their happiness together and suddenly everything went black—the venetian blind had closed.

Morning came and he opened the metal slats of the venetian blind. He thought of the Indian chief named Bona, and of Rene; they had disappeared also. A week ago, two weeks ago, maybe a month ago they — he, Bona, Rene — had gone on a hunting trip. They had climbed one of the island's mountains and had found food plentiful. Bona and Rene were very happy as they sang and laughed together. The venetian blind started to close. Adolph started to laugh; Bona and Rene became frightened and started to run. He ran after them, and the blind closed again.

If only he could remember. What had happened to all of those wonderful friends of his? He could remember all the incidents up to a point, and then something would happen; and no matter how hard he tried he could not remember. Was his life always going to be like the venetian blind? He opened and closed the metal slats; he would remember. Yes, he would open them and never close them again. Then he slept.

Mae Brennan

MINERAL REPORT

The October edition of the Montana Oil Journal reported that mining and quarrying (except coal and metals) had the largest net income in the country, as a percentage of net assets, with an 18.4% return. Other extractive industries and their returns were listed: stone, clay and glass, 14.6%; petroleum production and refining, 12.6%; metal mining, 10.2%; and all mining, 9.4%. Studies at the Montana School of Mines involve these industries.

Mines Radio Program

Montana School of Mines, under the direction of Prof. John McCaslin, will have a series of taped 12-minute educational programs available for state-wide, radio-station distribution. These programs will include interviews with foreign students, programs from each department in the school, and information of club and school activities. There will be 200 taped programs when the project is completed.

Montana radio stations will select their programs from a list made available to them by the Mines and will notify the school of the times of broadcast. Professor McCaslin hopes to have 30 tapes completed for circulation by December 15. Look for the times of these broadcasts in the Amplifier.

These taped programs are designed to provide the public with a better understanding of the Mines' activities, curricula, and faculty and student views. Prof. McCaslin states, "This will be a chance for state-wide publicity."

Mansfield States

The School of Mines has received much publicity through the recent remarks of Senator Mike Mansfield in his speech to the Senate. However, parts of his speech which were not quoted are worth repeating. He stated, in part: "Mr. President, in Butte, Montana, is located one of the great technical schools of the Nation and of the world. The Montana School of Mines is so recognized, not only by the Senator from Montana, who happened to have been a student there some years ago, but also by the entire engineering profession."

"Mr. President, we are often accused of cluttering up the Record with matters of local interest only. The Orediggers football team may, indeed, be of great interest to the people of Butte. But I want to say that in what it stands for in the way of decency among the young people of the Nation, what it stands for in the wise relating of education and sports, is not of local interest only; and in the consistent understanding which its loyal supporters give to this team of young men and in their ability to put winning and losing in wise and humorous perspective, there is a profound meaning for all of us, wherever we may be in the Nation. It is for that reason, Mr. President, that I commend Professor McCaslin's letter to the attention of the Senate. It would be my hope that the Record will always contain occasional statements, such as this one, which serve as a kind of tonic for the spirit and a replenishment of hope for the future."

MINES WORLD REPUTED

MANY LANDS REPRESENTED

A record enrollment of students from many points on the globe proves that the School of Mines is world renowned. This enrollment includes 30 students from foreign countries; 57 from out-of-state; and 397 from Montana.

Foreign-student enrollment includes four students from India; three from Peru; one each from Algeria, Bolivia, Chili, Iran, Korea, Lebanon, Pakistan, and Thailand; and 15 students from the provinces of Alberta, British Columbia, Manitoba, Ontario, and Saskatchewan in Canada.

Here at home, registration of students indicates that 22 states are represented, from Maine to California, Alaska and Hawaii.

Butte, naturally, boasts the largest representation of students from Montana, with a total of 291 of the 397 students registered. Students from 39 other Montana cities make up the remainder of registration.

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Basketball Gets Underway

Football having seasoned out, a new year of basketball is underway. A large turnout, approximately 26, have been training the last two weeks under the assistance and direction of Jim Freeborn, Jr., a former Mines' player. Coach Ed Simonich has an optimistic viewpoint in spite of the lack in height.

Coach Simonich states, "Although there are seven lettermen returning, every position in the floor is wide open, and the player showing the best ability and hustle on the basketball floor will achieve the position." Because of the lack of altitude, Simonich reports, the players must work overtime in order to be in top-flight shape and to compete effectively with the other teams.

Among the returning lettermen is Frank Sopko, who led the conference in scoring last season and who, in addition, was nominated to the Second All-Conference Team. Other returning lettermen are juniors Pat Marx, Rodney Ylitalo, John Badovinac, and Jim Ceserani. Senior lettermen are Jim Conway and Bill Bayliff. The tallest turnout on the squad is Marty Merkle, who is a 6'3" freshman.

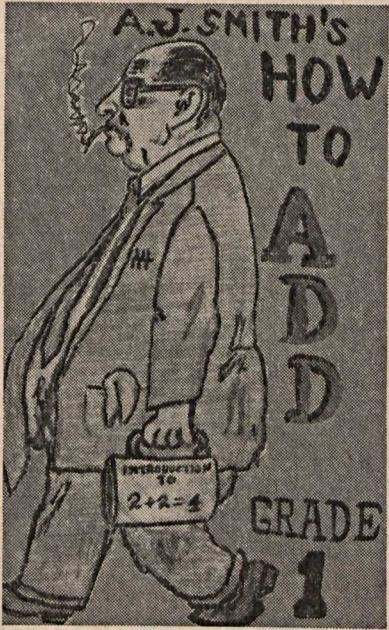
The Mines' hoopsters open the season in a couple of nonconference games in Rexburg, Idaho, on December 6 and 7. The conference opener will be against Carroll College on January 9.

BASKETBALL SCHEDULE

December
6 & 7—Ricks College (T)
13 & 14—Mount Royal College (H)

January
11—Carroll (H)
17—Rocky (T)
18—Eastern (T)
21—Western (H)

February
1—Rocky (H)
7—Carroll (T)
8—Northern (T)
15—Eastern (H)
18—Western (T)
21—Northern (H)



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RUSHING

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Evans	85	314	3.7	52.33
Sever	76	280	3.69	46.67
Leary	20	48	2.4	8.00
Jozovich	18	57	3.16	9.5
Salmonsens	2	-7		
Lescantz	2	4	2.00	
Peterson	2	4	2.00	
Kravik	1	0		

PASSING

Player	Att.	Comp.	Yds.	Had Intcp.	T.D.	Game Avg.
Fellows	60	14	148	5	1	23.3

RECEIVING

	Recep.	Yds.	Game Avg.
Evans	5	49	8.17
Kravik	3	35	5.83
Bennett	2	28	4.67
Sever	1	10	1.67
Jozovich	1	10	1.67
Leary	1	15	2.50
Fellows	1	1	0.17

PUNTING

	Punts	Yds.	Avg.
Sever	16	485	30.3
Evans	7	195	27.9

SCORING

	T.D.	P.A.T.	Total
Fellows	3	0	18
Evans	1	1	7
Sever	1	1	7
Defense			2
			(safety)

TOTALS

RUSHING

	Carries	Yds.	Game Avg.
Mines	307	880	146.67
Opponents	170	762	127.0

PASSING

	Att.	Comp.	Had Intcp.	Yds.	Game Avg.
Mines	60	14	5	148	24.67
Opponents	82	32	14	647	107.83

TOTAL OFFENSE

	Passing	Total	Game Avg.
Mines	880	1028	171.33
Opponents	762	1409	234.83

SCORES

	Mines
Rocky	6
Northern	2
Rocky	0
Northern	13
Western	19
Carroll	0
	0

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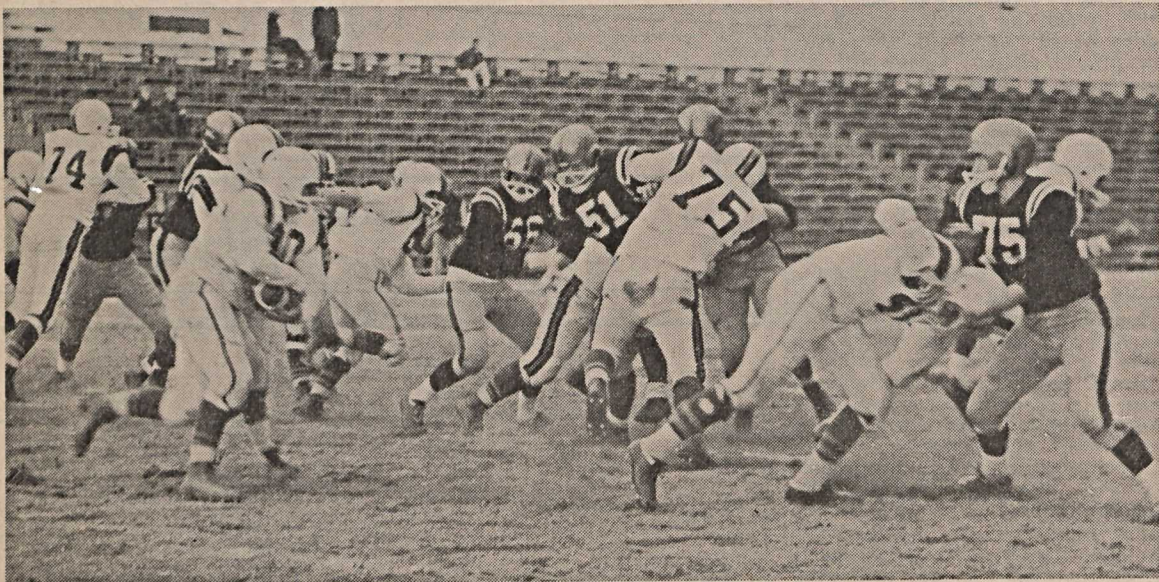
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MINERS DROP SEASON FINALE 13-0, BUT OUTDOWN, OUTYARDAGE SAINTS

by Cal Strobel



George Sever takes the mail from Dale Fellows as Jocko Evans, blocking on the right end, Fuzzy Olson 75, Mike Kujawa 74, and other Orediggers make daylight through the Saint defense.

A pair of touchdown passes made the difference as the Carroll College Saints downed the Orediggers 13-0 in a non-conference grid contest, the 1963 football finale for both teams. Again defense was the mainstay of the Miners' performance, which allowed only 7 first downs and 175 yards rushing for the Saints, as opposed to 14 first downs and 214 yards rushing for the Orediggers. But the Saints successfully capitalized on the major weakness of the Mines club—pass defense.

At times the Orediggers performed beautifully on offense, driving within the Saints' 25-yard line five times. Two of these drives were terminated by fumbles, one by a pass interception. Two drives (one in the second period and one in the last 3 minutes) bogged down within 10 yards of paydirt. The Orediggers spent over 36 minutes on offense, well over half of the playing time.

First Quarter: Saints Score

The opening kick-off went to the Saints, who lost the ball on a fumble after 3 minutes of play. The miners took command, but relinquished the ball soon after making one first down. With 6:50 left in the first period, the strong Mines' defense held the Saints immobile, but the Orediggers made only 3 plays before fumbling to the Saints on the Mines' 43-yard line. The Saints' fullback Bill Albright and halfback Jim McMahan, alternating carries, moved the ball to the ten, setting the stage for a Roach-to-Durkin touchdown pass with 1:16 left in the first period. The conversion was good, making the score 7-0 in favor of the Saints.

Longest Drive

Fellows received the kick-off and returned to the 30-yard line. The Miners then initiated the longest sustained drive of the ball game as Sever, Evans, and Fellows turned on an outstanding offensive effort, rolling for 60 yards in 17 plays. But the spark died somewhere inside the Saints 10-yard line with 8:15 left in the second stanza. The ball changed hands 3 times in the next 5½ minutes, as the Saints drove deep into Mines territory late in the period. The threat died near the Mines 15, with 1:26 left to play. The ball changed hands twice and the half ended.

Miners Dominate Third Period

The third period was marked by an impregnable Mines defense. The Saints were held virtually gainless while the Orediggers ran wild on the ground, but two costly fumbles kept the determined Miners from turning the tide. The Orediggers received to open the second half, but fumbled after 3 plays from scrimmage. Carroll could get nowhere with the ball, and the Miners immediately reclaimed the ball on downs and began the second longest drive of the game, holding the pigskin for about 11 plays. Again an otherwise successful drive was terminated by a fumble to the Saints. Carroll held possession only briefly, however, and the Mines offense went to work again, with Dale Fellows making a spectacular end run for a first down on the first play; but the drive died with 40 seconds to play in the third stanza.

Saints Score Fatal Blow

The fourth period opened with Carroll driving hard. Evans connected on a 17-yard touchdown pass to Durkin with 13:19 left in the game, putting further hopes for a Mines victory in jeopardy. Dave Bennett took the kick-off to the 20, and the Miners engineered 2 first downs before several costly losses made it necessary to kick. Carroll played the ball briefly before the strong Mines offense held them gainless. Again the Mines offense moved for a first down, but the potential drive was terminated by an intercepted pass with 4:21 left in the game.

Orediggers Threaten

The pigskin was back in Oredigger hands on the Carroll 41, 3:05 remaining to play. Fellows raced 13 yards on a keeper play to the 29. Halfback Gary Evans picked up 15 more yards, giving the Orediggers a first and ten on the Carroll 14. Fullback George Sever, Evans, and Fellows moved the ball close to the first down—but not close enough. Mines was stopped on the Carroll eight. The game ended three plays later.

Tough in the defensive line were Terry Hebert, Charles Starin, Bob Thomas, Mike Kujawa, and Charles Olson. Ends Derald Anderson and Bill Robinson stopped many Carroll ball carriers when only the open field separated them from paydirt. In the backfield George Sever, Gary Evans, and John Giacomino made a particularly aggressive defensive effort, accounting for over half of the tackles.

Sweat, Blood, and Gridiron Memories

Anyone who has followed the Orediggers over the last few seasons will agree that this has been a successful year. The team has vastly improved; too, team spirit as well as school interest have never been more acute. Now the explosive excitement and fanfare associated with the game of football has ceased to fill the crisp fall mountain air with festive sounds, and the armor of gridiron battle has been laid away for another year. But the story of 1963 grid experiences will remain forever a living testimony to the sweat and blood that were heroically shed by a gallant team. For all who played football for the School of Mines this year, an expression of gratitude is extended for their noble role in providing a pageant of colorful fall memories.

Calvin Strobel
Sports Editor

Post-Season Comments

We of the Sports Staff wish to congratulate Coach Simonich and his team for a fine year of pleasing football. Now that the football is put away for another year and the season can be regarded in retrospect, it is obvious that the Mines was the team to beat. Not carrying paid players on the team, the Mines must be beaten by the other teams in the conference unless they should lose face. Victory over our team came easily only once, but the defeat was to be the major stimulus behind the decisive Homecoming victory. A team that can be beaten 32-0 and then reverse the story to a 19-7 victory is a team of spirit, determination, and mostly, a team of exceptional individuals.

After the shellacking we received at Northern, it was the purpose of the sports editors to pour salt into the wounded team ego, not for purposes of condemnation, but rather as an additional means of bringing out the quality we knew was there. We were right in our beliefs, as the remainder of the season proved. From that game on, the Mines was the most determined team in the conference.

Congratulations are also in order for "Fuzzy" Olson and George Sever for their honors of being chosen the Most Valuable Back and Most Valuable Lineman. Olson was also chosen as the Most Valuable Player. They were additionally chosen as the Honorary Co-Captains. Voting was by the team at the Annual Football Dinner.

It is with sincere regret that we must say farewell to Dale Fellows, Bob Thomas, and Derald Anderson. With best wishes for your future at the respective schools of your choice, we thank you for your helping hand at the three important positions you held.

Thomas Downey

All-Conference Forecast

by Tom Downey

Not a major sports writer or prophet of exceptional talent, I do, however, feel that, after spending many hours with the team, I am in a position to offer some opinions. Sticking to the team I know best, these are my predictions: "Fuzzy" Olson, first-team tackle; Chuck Starin, first-team guard; George Sever, second-team fullback; Dale Fellows, second-team quarterback; "Jocko" Evans, second-team halfback; Bob Thomas, second-team tackle. Honorable mention to Mike Kujawa, "Gooch" Robinson, John Giacomino, Terry Hebert and Ed Simonich.

1963 Football Monogram Winners

Dale Fellows, Pat Leary, Dale Jozovich, Gene Lescantz, George Sever, Curt Peterson, Gary Evans, Ed Simonich, John Giacomino, Terry Hebert, Bob Cook, Ed Panisko, Charles Starin, Dan Reap, Jon Paschke, Bob Thomas, Jim Vincette, George Martin, Stan Miller, Paul Miller, Mike Kujawa, Charles Olson, Dave Bennett, Derald Anderson, Bill Robinson.

Coaches' Choice

Congratulations to the eight men who were chosen to All-Star teams. It is a fine acknowledgment of this year's very good showing in the lower division of the new conference setup.

Those selected for the magical team are as follows:

Charles Olson, offensive senior tackle.

Charles Starin, offensive freshman guard.

Ed Simonich, offensive junior center.

George Sever, offensive senior fullback.

Bill Robinson, defensive sophomore end.

Terry Hebert, defensive guard.

Dale Fellows, defensive sophomore halfback.

Gary Evans, defensive sophomore halfback.

Intramural Sports

Intramural sports got into full swing this year with the starting of the touch football league. The teams consisted of six players, and the season resulted in the following team scores: Fearsome Nine (18), Chinese Bandits (0), Tau I (12), and Fearsome Nine (0), Tau I (6). Thus Tau I becomes the league champion.

Coach Simonich, head of the physical-education program at the School of Mines, announced that the wrestling program will be held from 1:00 to 2:30 on Mondays, Wednesdays, and Fridays, in the gym. He also reported that the judo classes will be held in the evenings on Mondays and Wednesdays from 7:00 to 9:00.

Coach Simonich plans to start the intramural basketball league after Thanksgiving vacation. The teams will consist of eight members, and all rosters were to be turned in by November 18.

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